

Prepared By

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC
Lacey, Washington
(2.4 meter)**

Temporary Transmit-Only Earth Station
Operation Dates: 01/20/2017 - 07/20/2017

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations. Verbal and written coordination was conducted with the below listed carriers on January 10, 2017.

Company

Accel Net, Inc.
Astound Broadband, LLC
Bearclaw, LLC
CENCOM - Kitsap 911
COMMUNITY TRANSIT SNOHOMISH COUNTY PTBA
CenturyTel of Washington, Inc.
City of Tacoma / Tacoma Public Utilities
Clark, County of WA (Emergency Services)
Cowlitz, County of
Eastside Public Safety Com Agency
Federal Communication Commission
Grays Harbor Public Utility District #1
Grays Harbor, County of
King County DOT Metro Transit Division
King, County of
Maritime Fire & Safety Association
McDaniel Cellular Telephone Company
NEXTEL WEST CORPORATION
NeXXCom Wireless LLC
New Cingular Wireless PCS LLC -OR Region
New Cingular Wireless PCS LLC-Washington
Noel Communications, Inc
Northwest Pipeline GP
Olympic Wireless, LLC
Oregon State
PUYALLUP, CITY OF
Pierce County
Portland General Electric
Public Util Dist. #1 of Snohomish County
Public Utility Dist #2 of Pacific County
Puget Sound Energy
Qwest Corporation
RSN Wireless, LLC

Rendezvous Communications LLC
SILKE COMMUNICATIONS, INC
Sander Operating Co. III LLC
Seattle City Light
Seattle SMSA Limited Partnership
Seattle, City of
Selahv Farms, LLC
Skagit 911
Snohomish County Emergency Radio System
Startouch, Inc.
Tacoma, City of
Thurston 9-1-1 Communications
Tribune Broadcasting Seattle, LLC
USCOC of Washington 4 Inc.
Verizon Wireless (VAW) LLC - (WA)
Verizon Wireless (VAW) LLC-Portland, OR
Washington State Patrol
Washington State of Dept of Transportat
Whidbey Telephone Co

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Date: 01/10/2017
Job Number: 170110COMSGE03

Administrative Information

Status TEMPORARY (Operation from 01/20/2017 to 07/20/2017)
Call Sign TEMP07
Licensee Code NORSLO
Licensee Name North Slope Borough

Site Information LACEY, WA

Venue Name
Latitude (NAD 83) 47° 2' 4.5" N
Longitude (NAD 83) 122° 47' 50.3" W
Climate Zone A
Rain Zone 3
Ground Elevation (AMSL) 56.21 m / 184.4 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 115° W to 115° West Longitude
Azimuth Range 169.4° to 169.4°
Corresponding Elevation Angles 35.4° / 35.4°
Antenna Centerline (AGL) 3.66 m / 12.0 ft

Antenna Information Transmit - FCC32

Manufacturer General Dynamics (Prodelin)
Model 1244
Gain / Diameter 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz) -14.1
(dBW/MHz) 9.9

Maximum EIRP (dBW/4 kHz) 27.9
(dBW/MHz) 51.9

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 6.1 GHz

Emission / Frequency Range (MHz) 230KG7W - 250KG7W / 5925.0 - 5948.0
230KG7W - 250KG7W / 6021.0 - 6067.0
230KG7W - 250KG7W / 6120.0 - 6126.0
230KG7W - 250KG7W / 6179.0 - 6319.0
230KG7W - 250KG7W / 6372.0 - 6425.0

Max Great Circle Coordination Distance 140.6 km / 87.3 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values	LACEY, WA
Licensee Name	North Slope Borough
Latitude (NAD 83)	47° 2' 4.5" N
Longitude (NAD 83)	122° 47' 50.3" W
Ground Elevation (AMSL)	56.21 m / 184.4 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	General Dynamics 2.4 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-14.1 (dBW/4 kHz)

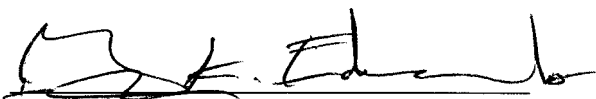
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	143.25	-10.00	132.57
5	0.29	142.00	-10.00	124.78
10	0.50	140.15	-10.00	108.75
15	0.24	137.51	-10.00	128.86
20	0.24	134.73	-10.00	128.93
25	0.54	131.86	-10.00	106.64
30	0.45	128.50	-10.00	112.10
35	0.30	124.92	-10.00	124.76
40	0.21	121.25	-10.00	131.99
45	0.47	117.60	-10.00	110.60
50	0.53	113.76	-10.00	107.03
55	0.30	109.76	-10.00	124.38
60	0.23	105.76	-10.00	130.04
65	0.39	101.76	-10.00	117.51
70	0.40	97.69	-10.00	116.35
75	0.54	93.61	-10.00	106.81
80	0.91	89.51	-10.00	100.00
85	0.55	85.41	-10.00	106.25
90	0.93	81.28	-10.00	100.00
95	0.00	77.34	-10.00	132.57
100	0.42	73.25	-10.00	114.92
105	0.55	69.23	-10.00	105.97
110	0.42	65.35	-10.00	115.03
115	0.41	61.52	-10.00	115.93
120	0.23	57.86	-10.00	130.30
125	0.00	54.38	-10.00	132.57
130	0.21	50.83	-10.00	131.34
135	0.00	47.73	-9.97	132.66
140	0.00	44.75	-9.27	133.29
145	0.00	42.07	-8.60	135.14
150	0.24	39.54	-7.93	133.50
155	0.27	37.60	-7.38	133.54
160	0.00	36.46	-7.05	139.62
165	0.00	35.63	-6.80	140.37
170	0.00	35.40	-6.72	140.59
175	0.00	35.78	-6.84	140.24
180	0.00	36.75	-7.13	139.37
185	0.00	38.26	-7.57	138.08

Coordination Values	LACEY, WA
Licensee Name	North Slope Borough
Latitude (NAD 83)	47° 2' 4.5" N
Longitude (NAD 83)	122° 47' 50.3" W
Ground Elevation (AMSL)	56.21 m / 184.4 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	General Dynamics 2.4 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-14.1 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	40.26	-8.12	136.49
195	0.00	42.68	-8.75	134.71
200	0.00	45.44	-9.44	134.10
205	0.00	48.48	-10.00	132.57
210	0.24	51.62	-10.00	128.88
215	0.26	55.09	-10.00	127.26
220	0.28	58.72	-10.00	126.08
225	0.33	62.45	-10.00	122.20
230	0.35	66.30	-10.00	120.59
235	0.33	70.23	-10.00	122.02
240	0.27	74.23	-10.00	126.84
245	0.26	78.26	-10.00	127.96
250	0.34	82.31	-10.00	120.77
255	0.00	86.41	-10.00	132.57
260	0.00	90.49	-10.00	132.57
265	0.00	94.56	-10.00	132.57
270	0.00	98.62	-10.00	132.57
275	0.00	102.66	-10.00	132.57
280	0.00	106.66	-10.00	132.57
285	0.00	110.62	-10.00	132.57
290	0.00	114.51	-10.00	132.57
295	0.27	118.43	-10.00	126.47
300	0.37	122.20	-10.00	118.40
305	0.00	125.62	-10.00	132.57
310	0.00	129.04	-10.00	132.57
315	0.00	132.27	-10.00	132.57
320	0.00	135.25	-10.00	132.57
325	0.00	137.93	-10.00	132.57
330	0.00	140.25	-10.00	132.57
335	0.00	142.15	-10.00	132.57
340	0.00	143.54	-10.00	132.57
345	0.00	144.37	-10.00	132.57
350	0.00	144.60	-10.00	132.57
355	0.00	144.22	-10.00	132.57

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: January 12, 2017

Prepared By

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Prepared For

**Intelsat License LLC
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Grays Harbor, County of
King County DOT Metro Transit Division
King, County of
Maritime Fire & Safety Association
McDaniel Cellular Telephone Company
NEXTEL WEST CORPORATION
NeXXCom Wireless LLC
New Cingular Wireless PCS LLC -OR Region
New Cingular Wireless PCS LLC-Washington
Noel Communications, Inc
Northwest Pipeline GP
Olympic Wireless, LLC
Oregon State
PUYALLUP, CITY OF
Pierce County
Portland General Electric
Public Util Dist. #1 of Snohomish County
Public Utility Dist #2 of Pacific County
Puget Sound Energy
Qwest Corporation
RSN Wireless, LLC

Rendezvous Communications LLC
SILKE COMMUNICATIONS, INC
Sander Operating Co. III LLC
Seattle City Light
Seattle SMSA Limited Partnership
Seattle, City of
Selahv Farms, LLC
Skagit 911
Snohomish County Emergency Radio System
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Tacoma, City of
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Date: 01/10/2017
Job Number: 170110COMSGE02

Administrative Information

Status TEMPORARY (Operation from 01/20/2017 to 07/20/2017)
Call Sign TEMP07
Licensee Code NORSLO
Licensee Name North Slope Borough

Site Information LACEY, WA

Venue Name
Latitude (NAD 83) 47° 2' 4.5" N
Longitude (NAD 83) 122° 47' 50.3" W
Climate Zone A
Rain Zone 3
Ground Elevation (AMSL) 56.21 m / 184.4 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 115° W to 115° West Longitude
Azimuth Range 169.4° to 169.4°
Corresponding Elevation Angles 35.4° / 35.4°
Antenna Centerline (AGL) 3.66 m / 12.0 ft

Antenna Information Transmit - FCC32

Manufacturer General Dynamics (Prodelin)
Model 1385
Gain / Diameter 46.2 dBi / 3.8 m
3-dB / 15-dB Beamwidth 0.90° / 2.00°

Max Available RF Power (dBW/4 kHz) -18.3
(dBW/MHz) 5.7

Maximum EIRP (dBW/4 kHz) 27.9
(dBW/MHz) 51.9

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 6.1 GHz

Emission / Frequency Range (MHz)
230KG7W - 250KG7W / 5925.0 - 5948.0
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230KG7W - 250KG7W / 6120.0 - 6126.0
230KG7W - 250KG7W / 6179.0 - 6319.0
230KG7W - 250KG7W / 6372.0 - 6425.0

Max Great Circle Coordination Distance 130.1 km / 80.8 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values**LACEY, WA**

Licensee Name North Slope Borough
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Antenna Model General Dynamics 3.8 meter
Antenna Mode Transmit 6.1 GHz
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%
Max Available RF Power -18.3 (dBW/4 kHz)

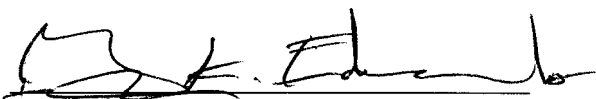
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	143.25	-10.00	121.46
5	0.29	142.00	-10.00	113.74
10	0.50	140.15	-10.00	100.00
15	0.24	137.51	-10.00	117.78
20	0.24	134.73	-10.00	117.85
25	0.54	131.86	-10.00	100.00
30	0.45	128.50	-10.00	101.21
35	0.30	124.92	-10.00	113.73
40	0.21	121.25	-10.00	120.89
45	0.47	117.60	-10.00	100.00
50	0.53	113.76	-10.00	100.00
55	0.30	109.76	-10.00	113.35
60	0.23	105.76	-10.00	118.96
65	0.39	101.76	-10.00	106.55
70	0.40	97.69	-10.00	105.42
75	0.54	93.61	-10.00	100.00
80	0.91	89.51	-10.00	100.00
85	0.55	85.41	-10.00	100.00
90	0.93	81.28	-10.00	100.00
95	0.00	77.34	-10.00	121.46
100	0.42	73.25	-10.00	104.00
105	0.55	69.23	-10.00	100.00
110	0.42	65.35	-10.00	104.11
115	0.41	61.52	-10.00	105.00
120	0.23	57.86	-10.00	119.21
125	0.00	54.38	-10.00	121.46
130	0.21	50.83	-10.00	120.24
135	0.00	47.73	-9.97	121.54
140	0.00	44.75	-9.27	123.37
145	0.00	42.07	-8.60	125.13
150	0.24	39.54	-7.93	123.50
155	0.27	37.60	-7.38	122.26
160	0.00	36.46	-7.05	129.24
165	0.00	35.63	-6.80	129.91
170	0.00	35.40	-6.72	130.10
175	0.00	35.78	-6.84	129.79
180	0.00	36.75	-7.13	129.02
185	0.00	38.26	-7.57	127.85

Coordination Values	LACEY, WA
Licensee Name	North Slope Borough
Latitude (NAD 83)	47° 2' 4.5" N
Longitude (NAD 83)	122° 47' 50.3" W
Ground Elevation (AMSL)	56.21 m / 184.4 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	General Dynamics 3.8 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-18.3 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	40.26	-8.12	126.39
195	0.00	42.68	-8.75	124.72
200	0.00	45.44	-9.44	122.94
205	0.00	48.48	-10.00	121.46
210	0.24	51.62	-10.00	117.80
215	0.26	55.09	-10.00	116.20
220	0.28	58.72	-10.00	115.04
225	0.33	62.45	-10.00	111.20
230	0.35	66.30	-10.00	109.60
235	0.33	70.23	-10.00	111.01
240	0.27	74.23	-10.00	115.79
245	0.26	78.26	-10.00	116.89
250	0.34	82.31	-10.00	109.78
255	0.00	86.41	-10.00	121.46
260	0.00	90.49	-10.00	121.46
265	0.00	94.56	-10.00	121.46
270	0.00	98.62	-10.00	121.46
275	0.00	102.66	-10.00	121.46
280	0.00	106.66	-10.00	121.46
285	0.00	110.62	-10.00	121.46
290	0.00	114.51	-10.00	121.46
295	0.27	118.43	-10.00	115.42
300	0.37	122.20	-10.00	107.44
305	0.00	125.62	-10.00	121.46
310	0.00	129.04	-10.00	121.46
315	0.00	132.27	-10.00	121.46
320	0.00	135.25	-10.00	121.46
325	0.00	137.93	-10.00	121.46
330	0.00	140.25	-10.00	121.46
335	0.00	142.15	-10.00	121.46
340	0.00	143.54	-10.00	121.46
345	0.00	144.37	-10.00	121.46
350	0.00	144.60	-10.00	121.46
355	0.00	144.22	-10.00	121.46

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

BY: 

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Senior Manager
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